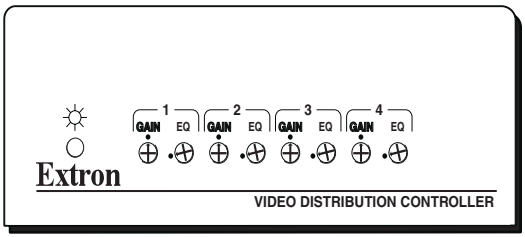
MDA EQ Series Setup Guide



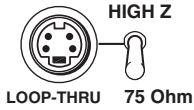
IMPORTANT:
Refer to www.extron.com for the complete user manual and installation instructions before connecting the product to the power source.

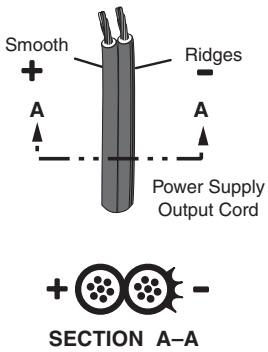
The Extron® MDA EQ Series are compact mini distribution amplifiers available with composite video or S-video and with individual output gain and equalization controls that compensate for different cable lengths for each output. Each adjustment on the MDA 4SV EQ model equalizes **two** outputs. The MDA EQ products are also line drivers, able to equalize signals sent over 1000 feet (300 m) of Extron Mini High Resolution cable.

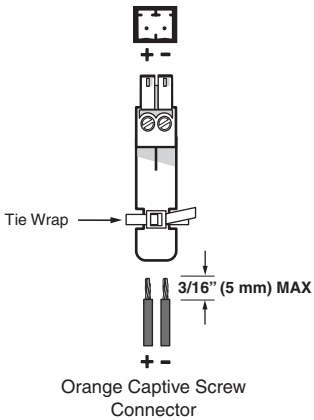
This guide provides basic instructions for an experienced installer to set up these distribution amplifiers for operation.

Installation

1. Turn off and disconnect all equipment from the power source.
2. (Optional) If desired, mount the MDA EQ on a 9.5, 6, or 3.5 inch deep rack shelf; a projector mounting pole; or furniture.
3. Connect a composite video or an S-video source device to the Input connector.
4. Connect one or two video output devices to the composite video or S-video output connectors.
5. (Optional) Connect a monitor to the Loop-Thru connector for passive loop-through.
6. Set the termination toggle switch:
   - o If a monitor is connected to the Loop-Thru connector, set the switch to High Z (up).
   - o If no monitor is connected, set the switch to 75 Ohm (down).
7. Wire the provided power supply as shown below and connect it to the 2-pole, 3.5 mm captive screw connector.







CAUTION: Always use a power supply provided by Extron for the MDA EQ series. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the MDA.

CAUTION: The power supply must not be permanently fixed to the building structure or similar structures.
The power supply must not be located within environmental air handling spaces or the wall cavity.
The installation must be in accordance with the applicable provisions of the National Electrical Code ANSI/NFPA 70, Article 725 and the Canadian Electrical Code, Part 1, Section 16.
The power supply must be located within the same vicinity as the Extron A/V processing equipment in an ordinary location, Pollution Degree 2, secured to a podium, a desk, or an equipment rack within a dedicated closet.

8. Connect power cords to the input and output devices and turn on all equipment.
9. Adjust the potentiometers for output cable lengths (if needed).
   - o **If using very short output cables,** set all potentiometers to the default setting (with the arrow on the potentiometer pointing to the dot beside it as shown).

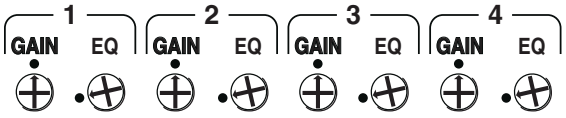


Figure 1. MDA 2V EQ and MDA 4V EQ Default Potentiometer Adjustment

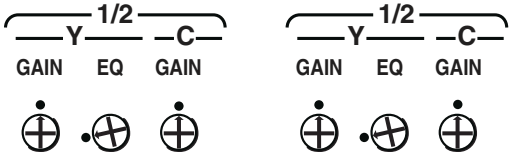


Figure 2. MDA 4SV EQ Default Potentiometer Adjustment

- o **If using long cables,** follow these steps to adjust the potentiomenters:

a. Send the Color Bars test signal to the input, using a video test generator such as the Extron VTG 300.

b. Adjust the Gain potentiometers for output 1 until the signal level at the far end is the same as the input (or the display shows the desired brightness and contrast).

c. Adjust the EQ potentiometer for output 1 so that no overshoot or round front corners appear at the far end on an oscilloscope (or you see a sharp picture with no smearing).

d. Repeat steps **b** and **c** for the rest of the outputs.

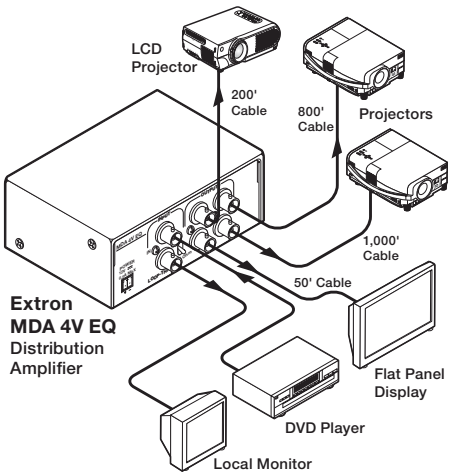


Figure 3. Application Example — MDA 4V EQ

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